SEQUENCE LISTING

<110>   Doherty, Joni

    Clinton, Gail M.

<120>   HER-2 BINDING ANTAGONISTS

<130>   49321-16

<140>   US 09/506,079

<141>   2000-02-16

<150>   US 09/234,208

<151>   1999-01-20

<160>   10

<170>   PatentIn version 3.1

<210>   1

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<212>   PRT

<213>   Homo sapiens

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<222>   (2)..(2)

<223>   Applicants herein disclose Thr and Ser sequence variants at this
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<222> (5)..(5)

<223> Applicants herein disclose Leu and Pro sequence variants at this position

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<222> (6)..(6)

<223> Applicants herein disclose Pro and Leu sequence variants at this position

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<222> (16)..(16)

<223> Applicants herein disclose Leu and Gln sequence variants at this position

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<222> (21)..(21)

<223> Applicants herein disclose Gly, Asp, Ala and Val sequence variants at this position

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<223> Applicants herein disclose Pro and Arg sequence variants at this
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Gly Xaa His Ser Xaa Xaa Pro Arg Pro Ala Ala Val Pro Val Pro Xaa
1   5   10   15

Arg Xaa Gln Pro Xaa Pro Ala His Pro Val Leu Ser Phe Leu Arg Pro
            20   25   30

Ser Trp Asp Xaa Val Ser Ala Phe Tyr Ser Leu Pro Leu Ala Pro Leu
        35   40   45

Ser Pro Thr Ser Val Xaa Ile Ser Pro Val Ser Val Gly Arg Gly Xaa
    50   55   60

Asp Pro Asp Ala His Val Ala Val Xaa Leu Ser Arg Tyr Glu Gly

65 · 70 75

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<213> Homo sapiens

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<222> (342)..(342)

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<222> (345)..(345)

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<222> (346)..(346)

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<222> (356)..(356)

<223> Applicants herein disclose Leu and Gln sequence variants at this
position

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<222>   (358)..(358)

<223>   Applicants herein disclose Met and Leu sequence variants at this
        position

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<222>   (361)..(361)

<223>   Applicants herein disclose Gly, Asp, Ala and Val sequence variant
        s at this position

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<222>   (376)..(376)

<223>   Applicants herein disclose Leu and Ile sequence variants at this
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<222>   (404)..(404)

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Ins F8

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            20              25              30

Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
        35              40              45

Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
    50              55              60

Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
65              70              75              80

Gln Gly Tyr Val Leu Cys Ala His Asn Gln Val Arg Gln Val Pro Leu
            85              90              95

Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
        100             105             110

Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro
        115             120             125

Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
    130             135             140

Leu Thr Glu Cys Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
145             150             155             160

Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn
            165             170             175

Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys
            180             185             190

His Pro Cys Ser Pro Cys Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser
        195             200             205
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Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys
    210             215             220

Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys
225             230             235                         240

Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu
                245             250                 255

His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val
            260             265             270

Thr Tyr Asn Thr Asp Thr Phe Glu Ser Cys Pro Asn Pro Glu Gly Arg
        275             280             285

Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Lys Leu
    290             295             300

Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln
305             310             315                         320

Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys
                325             330             335

Pro Cys Ala Arg Gly Xaa His Ser Xaa Xaa Pro Arg Pro Ala Ala Val
            340             345             350

Pro Val Pro Xaa Arg Xaa Gln Pro Xaa Pro Ala His Pro Val Leu Ser
        355             360             365

Phe Leu Arg Pro Ser Trp Asp Xaa Val Ser Ala Phe Tyr Ser Leu Pro
    370             375             380

Leu Ala Pro Leu Asp Pro Thr Ser Val Xaa Ile Ser Pro Val Ser Val
385             390             395                         400

Gly Arg Gly Xaa Asp Pro Asp Ala His Val Ala Val Xaa Leu Ser Arg
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Tyr Glu Gly
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<212>   DNA

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<223>   HER-2-specific oligonucleotide primer

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<212>   DNA

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<212>   DNA

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ataccgggac aggtcaacag c   21

<210> 7

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<212> DNA

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<223> HER-2 ECDIIIa-region-specific oligonucleotide primer

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<212> DNA

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<223> HER-2 exon-specific oligonucleotide primer

<400> 8
ttcacactgg cacgtccaga cc   22

<210> 9

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> HER-2 cDNA-specific oligonucleotide primer

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<212> DNA

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<222> (1)..(240)

<223> ECDIIIa region coding sequence

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<222> (62)..(62)

<223> Applicants disclose C, T, A and G variants at this position

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ggt wcc cac tca cyg cyc ccg agg cca gct gca gtt cct gtc cct cwg   48
Gly Xaa His Ser Xaa Xaa Pro Arg Pro Ala Ala Val Pro Val Pro Xaa
1   5   10   15

cgc atr cag cct gnc cca gcc cac cct gtc cta tcc ttc ctc aga ccc   96
Arg Xaa Gln Pro Xaa Pro Ala His Pro Val Leu Ser Phe Leu Arg Pro
                20   25   30

tct tgg gac mta gtc tct gcc ttc tac tct cta ccc ctg gcc ccc ctc   144
Ser Trp Asp Xaa Val Ser Ala Phe Tyr Ser Leu Pro Leu Ala Pro Leu
            35   40   45

agc cct aca agt gtc cst ata tcc cct gtc agt gtg ggg agg ggc cyg   192
Ser Pro Thr Ser Val Xaa Ile Ser Pro Val Ser Val Gly Arg Gly Xaa
        50   55   60

gac cct gat gct cat gtg gct gtt sac ctg tcc cgg tat gaa ggc tga   240
Asp Pro Asp Ala His Val Ala Val Xaa Leu Ser Arg Tyr Glu Gly
65   70   75